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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,878	08/25/2003	Eric Yang	17965	3184
26794 TYCO TECHN	7590 06/27/2007 VOLOGY RESOURCES	EXAMINER		
4550 NEW LIN	NDEN HILL ROAD, SUIT	VO, DON NGUYEN		
WILMINGTON, DE 19808-2952			ART UNIT	PAPER NUMBER
			2611	
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			MAIL DATE	DELIVERY MODE
			. 06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/647,878	YANG ET AL.			
Office Action Summary	Examiner	Art Unit			
<u>. </u>	DON N. VO	2611			
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	·				
	—· s action is non-final.				
3) Since this application is in condition for allowa		osecution as to the merits is			
closed in accordance with the practice under	•				
·					
Disposition of Claims					
4) Claim(s) <u>1-39</u> is/are pending in the application		·			
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-5,16-20 and 32-39</u> is/are rejected.					
7) Claim(s) <u>6-15 and 21-31</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>25 August 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority document	ts have been received.				
2. Certified copies of the priority documen		ion No.			
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
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Attachment(s)					
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date <u>5/17/04; 4/11/06 & 4/27/06</u> .	6) Other:	• •			
Patent and Trademark Office					

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DETAILED ACTION

Drawings

1. The drawings are objected to because the fonts used for descriptive text labels are so small such that some of the words are illegible. Moreover, there are no descriptive text labels for element (156) of figure 1, all elements of figure 2 and element (100) of figure 3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 32-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation of "said phase modulator" recited in claim 32, line 2 lacks antecedent basis.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 16-20 and 32-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Richards et al (US 6,252,464).

Regarding claims 1-5, 16-20 and 32-39, Richards, as shown in figures 1, 4, 10A and 10B, teaches a method and apparatus for re-aligning a modulated out signal (120) comprising generating reference phase signal (106, 110, 116, 140), generating a sample phase signal (114), comparing (148) and adaptively realigning (152, 168, 174, 176, 164, 112). See also column 6, line 33 to column 9, line 40; column 16, lines 3-18; column 16, line 57 to column 17, line 10; column 18, lines 42-58; column 19, lines 22-47; column 20, lines 37-44 and column 22, lines 11-35.

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Allowable Subject Matter

6. Claims 6-15 and 21-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References Shepherd et al (US 5,021,754), Hafez et al (US 2002/0191728), Filiol et al (US 6,515,553) and Montalvo et al (US 6,693,969) are cited because they are pertinent to the method and apparatus for adaptively re-aligning a modulated output signal having PLL. However, none of the cited references teaches or suggests, in combination, the further arrangements of the steps as recited in claim 6 and the corresponding elements as recited in claim 21 and further limitations of their respective dependent claims 7-15 and 22-31.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on Mon-Fri (9:00AM 6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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